

PI 525455. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Melton, B., Dept. of Agronomy and Horticulture, New Mexico State University, Las Cruces, New Mexico, United States.
Received October 14, 1988.

donor id: P-3. **origin:** United States. **pedigree:** Developed from Wilson 11%, Dona Ana 11%, 75-189 11%, NM Common 6%, Rincon 6%, WL 312 17%, Apollo 20%, Vernal 17%, parentage by three cycles of recurrent phenotypic selection, based on phosphorus concentration in the top growth. **other id:** GP-213. **group:** CSR-ALFALFA. **remarks:** Possesses 39% higher phosphorus concentration than in unselected check populations. Higher leaf/stem ratio, higher percentage of water soluble phosphorus, same percentage of water insoluble phosphorus and a higher rate of phosphorus uptake than check populations. Non-target mineral concentrations not affected adversely. Forage yield and fall dormancy similar to Mesilla. Susceptible to anthracnose. **disease resistance:** Bacterial and fusarium wilts. Moderate to root rot. **insect resistance:** Pea and spotted alfalfa aphids. Breeding Material. Seed.

PI 525456. *Triticum aestivum* L. POACEAE Common wheat

Donated by: Mundel, H.H., Agriculture Canada Research Station, Lethbridge, AB T1J 4B1, Canada. **Received** October 14, 1988.

donor id: BW 597. **origin:** Canada. **pedigree:** Ciano S/Chester. **other id:** GP-295. **group:** CSR-WHEAT. **other id:** 7451-5. **remarks:** Good yield potential. Susceptible to lodging. Milling and baking qualities very good. Acceptable alpha-amylase content (low). Seeds medium red, midsize to large. **disease resistance:** Many prevalent races of bunt and stem rust. Moderate to loose smut and leaf rust. **insect resistance:** Wheat Stem Sawfly. Spring Annual. Breeding Material. Seed.

PI 525457 to 525458. *Carthamus tinctorius* L. ASTERACEAE Safflower

Donated by: Bergman, J.W., Eastern Agric. Research Center, Montana Agric. Exp. Station, Sidney, Montana, United States. **Received** October 14, 1988.